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Chevron Bright-Cut® Metal Working Fluid, NHG

Subcategory: Fluid

Key Words: CPS Number: 233935; MSDS Number: 7721

Material Notes: Features

Chevron Bright-Cut Metalworking Fluids are a complete line of chlorine-free cutting oils that offer benefits not four cutting oils.

The unique synthetic antiweld components replace the chlorine and reduce the amount of sulfur and fat typically r cutting operations. They are light in color, for improved visibility during machining, and low in odor.

Chevron Bright-Cut Metalworking Fluids formulated with ISOSYN® base stocks provide increased oil life and a sa environment by increasing the fluid's flash point, and lowering exposure to aromatics and product vapor, smoking

Chevron Bright-Cut Metalworking Fluids:

- provide excellent cooling and lubrication in a wide range of machining operations
- prevent welding of chip and tool
- flush chips away from the work area
- protect the finished work surfaces, tools and machines against rusting and staining
- dramatically reduce oil mist in high speed machine tools

The nonstaining oils, Chevron Bright-Cut NL and NM Metalworking Fluids, can be used as dual or tripurpose oils i splash, hydraulic or spindle lubrication systems of metalworking machines. Chevron Bright-Cut AM, AH, AXH and Fluids contain active sulfur and will stain copper and brass.

Applications

Do not use Chevron Bright-Cut Metalworking Fluids in high pressure systems in the vicinity of flames, sparks and only in well ventilated areas. Keep container closed.

The severity of the machining operation and the machinability of the metal are the criteria for selecting the proper

Chevron Bright-Cut NHG Metalworking Fluid

- Service Classification: Honing/Grinding, Nonstaining
- A low viscosity cutting oil that is designed for use in light duty machining or honing and grinding operations

nonferrous metals, particularly aluminum, magnesium and their alloys. It can also be mixed with other Chevron Elite-Cut® Metalworking Fluids to adjust their compounding to meet the demands of a specific material.

Chevron Bright-Cut NL Metalworking Fluid

- Service Classification: Light Duty, Nonstaining
- A light duty product, suitable for general purpose machining of free-machining steels and nonferrous metals; also designed for use in flute grinding operations on difficult tool steels, where it extends wheel life and red finished parts found with conventional fluids.

Chevron Bright-Cut NM Metalworking Fluid

- Service Classification: Medium Duty, Nonstaining
- The workhorse tri-purpose cutting oil, suitable for automatic screw machine operations on free-machining steels, and intermediate to difficult nonferrous metals.

Chevron Bright-Cut AM Metalworking Fluid

- Service Classification: Medium Duty, Active
- A versatile, general purpose cutting oil for use with carbon steels and alloy steels. It provides the cooling needed for moderately severe machining operations and gives excellent tool life and finishes in operations such as tap drilling, gear shaving and turning.

Chevron Bright-Cut AH Metalworking Fluid

- Service Classification: Heavy Duty, Active
- Provides excellent performance for a wide range of applications. It is suitable for machining tough alloy steels. It is well adapted for broaching, threading, tapping and other difficult operations requiring a heavy duty oil and finish. This oil may be blended with Chevron Bright-Cut NHG Metalworking Fluid for less severe applications.

Chevron Bright-Cut AXH Metalworking Fluid

- Service Classification: Extra-Heavy Duty, Active
- Designed for the most difficult machining operations, such as broaching, tapping and threading on soft steels that tear easily, leaving a poor finish. It is recommended for use with alloy steels, stainless steels, tool and die steels. It is preferred over chlorinated cutting oils for heavy duty machining of difficult nonferrous metals (e.g. titanium, etc.) subject to staining, but may become brittle through the use of chlorinated fluids. This oil may be blended with Chevron Bright-Cut NHG Metalworking Fluid for less severe operations.

Chevron Bright-Cut AD Metalworking Fluid

- Service Classification: Deep Drilling, Active
- A low viscosity, heavy duty oil for drilling and reaming deep holes on difficult ferrous and nonferrous metals. It is recommended for heavy duty machining operations where a lower viscosity cutting oil is preferred. If used on brass, staining will result. However, many brass alloys stain relatively slowly, and in some instances staining can be avoided by washing the oil from the parts shortly after machining.

Available Properties

- API Gravity
- Saybolt Viscosity at 100°F
- Kinematic Viscosity at 40°C (104°F)
- Pour Point
- Flash Point
- Antirust
- Fatty Oil, vol %

Property Data

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